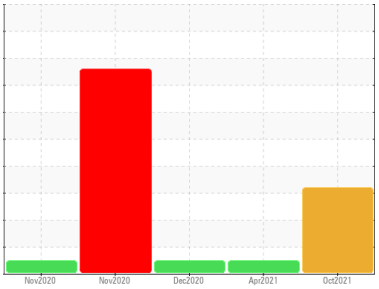
# PROBLEM SUMMARY

Sample Rating Trend




**WATER**

Area
**[21-1801]**
Machine Id
**KAESER 7003210 - BIG O DODGE (S/N 1464)**
Component
**Compressor**
Fluid
**KAESER SIGMA (OEM) S-460 (2 GAL)**

## COMPONENT CONDITION SUMMARY


## RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

| | | | | | | |
|---|---|---|---|---|---|---|
| Sample Status | | | | **ABNORMAL** | NORMAL | NORMAL |
| Water | % | ASTM D6304 | >0.05 | ▲ **0.296** | --- | --- |
| ppm Water | ppm | ASTM D6304 | >500 | ▲ **2960** | --- | --- |
| Free Water | scalar | *Visual | | ▲ **1.0** | NEG | NEG |

**Customer Id:** PALFOU
**Sample No.:** WC0622026
**Lab Number:** 05388124
**Test Package:** IND 2

*To manage this report scan the QR code*

*To discuss the diagnosis or test data:*
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

*To change component or sample information:*
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

## RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|---|---|---|---|---|
| Water Drain-off | MISSED | Jan 24 2022 | ? | We advise that you follow the water drain-off procedure for this component. |

## HISTORICAL DIAGNOSIS

**06 Apr 2021 Diag: Jonathan Hester**

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

**15 Dec 2020 Diag: Jonathan Hester**

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

**25 Nov 2020 Diag: Jonathan Hester**

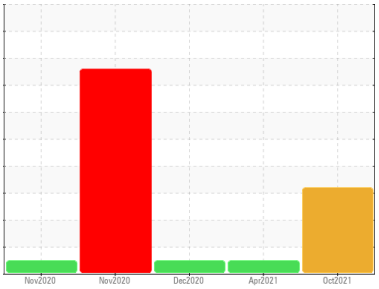
WATER

We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.All component wear rates are normal. Appearance is hazy. Free water present. There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

# OIL ANALYSIS REPORT

Sample Rating Trend




**WATER**

Area
**[21-1801]**
Machine Id
## KAESER 7003210 - BIG O DODGE (S/N 1464)
Component
**Compressor**
Fluid
**KAESER SIGMA (OEM) S-460 (2 GAL)**

## DIAGNOSIS

**Recommendation**
We advise that you follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

**Wear**
All component wear rates are normal.

**Contamination**
Free water present. There is a light concentration of water present in the oil.

**Fluid Condition**
The AN level is acceptable for this fluid.

| SAMPLE INFORMATION | | method | limit/base | current | history 1 | history 2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0622026** | WC0507649 | WC0460531 |
| Sample Date | | Client Info | | **25 Oct 2021** | 06 Apr 2021 | 15 Dec 2020 |
| Machine Age | hrs | Client Info | | **8420** | 6415 | 5365 |
| Oil Age | hrs | Client Info | | **1035** | 1050 | 1532 |
| Oil Changed | | Client Info | | **Not Changd** | Not Changd | Changed |
| Sample Status | | | | **ABNORMAL** | NORMAL | NORMAL |

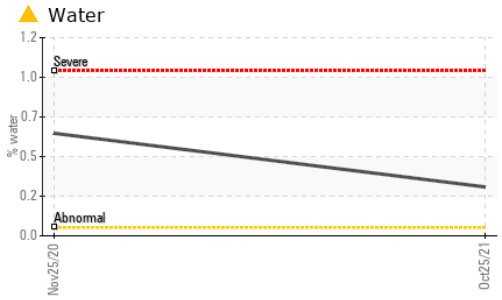
| WEAR METALS | | method | limit/base | current | history 1 | history 2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >50 | **0** | <1 | 0 |
| Chromium | ppm | ASTM D5185m | >10 | **0** | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | **0** | <1 | 0 |
| Titanium | ppm | ASTM D5185m | >3 | **0** | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | **<1** | 0 | 0 |
| Lead | ppm | ASTM D5185m | >10 | **0** | <1 | 0 |
| Copper | ppm | ASTM D5185m | >50 | **2** | <1 | 1 |
| Tin | ppm | ASTM D5185m | >10 | **0** | <1 | 0 |
| Antimony | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | **0** | 0 | 0 |

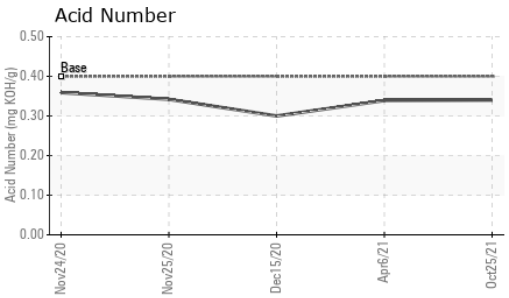
| ADDITIVES | | method | limit/base | current | history 1 | history 2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **11** | 11 | 9 |
| Barium | ppm | ASTM D5185m | 90 | **0** | 43 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 90 | **52** | 89 | 77 |
| Calcium | ppm | ASTM D5185m | 2 | **0** | 3 | 0 |
| Phosphorus | ppm | ASTM D5185m | | **<1** | 4 | 2 |
| Zinc | ppm | ASTM D5185m | | **0** | 4 | 0 |
| Sulfur | ppm | ASTM D5185m | | **16351** | 16158 | 15921 |

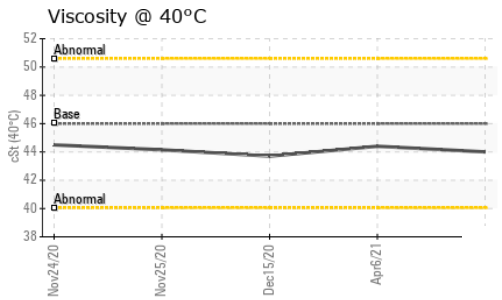
| CONTAMINANTS | | method | limit/base | current | history 1 | history 2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **0** | 0 | 0 |
| Sodium | ppm | ASTM D5185m | | **6** | 16 | 16 |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | 4 | 3 |
| Water | % | ASTM D6304 | >0.05 | ▲ **0.296** | --- | --- |
| ppm Water | ppm | ASTM D6304 | >500 | ▲ **2960** | --- | --- |

| FLUID DEGRADATION | | method | limit/base | current | history 1 | history 2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.4 | **0.340** | 0.339 | 0.300 |

# OIL ANALYSIS REPORT

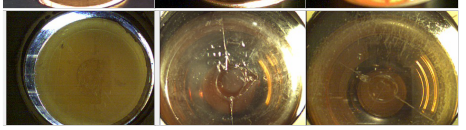


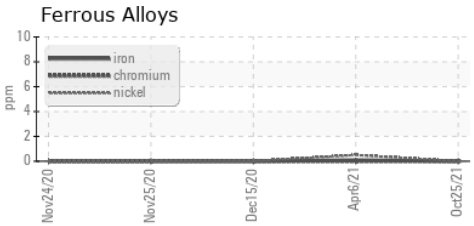



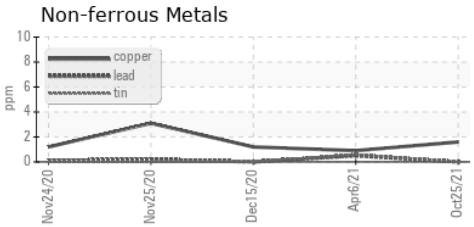

| VISUAL | | method | limit/base | current | history 1 | history 2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Debris | scalar | *Visual | NONE | **LIGHT** | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Appearance | scalar | *Visual | NORML | **NORML** | NORML | NORML |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.05 | **0.2%** | NEG | NEG |
| Free Water | scalar | *Visual | | ▲ **1.0** | NEG | NEG |

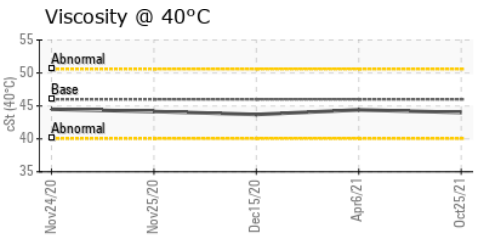
| FLUID PROPERTIES | | method | limit/base | current | history 1 | history 2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 46 | **44.0** | 44.4 | 43.7 |

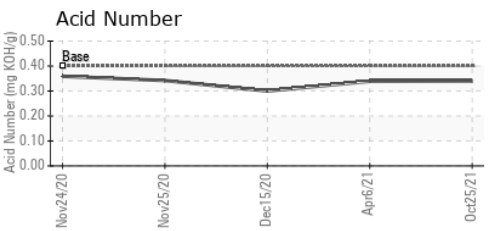
| SAMPLE IMAGES | method | limit/base | current | history 1 | history 2 |
|---|---|---|---|---|---|
| Color | | |  | | |
| Bottom | | |  | | |

## GRAPHS




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0622026 **Received** : 01 Nov 2021
**Lab Number** : 05388124 **Diagnosed** : 03 Nov 2021
**Unique Number** : 9722257 **Diagnostician** : Jonathan Hester
**Test Package** : IND 2 ( Additional Tests: KF )

*To discuss this sample report, contact Customer Service at 1-800-237-1369.*
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
*Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)*

**ELEVATED INDUSTRIAL SOLUTIONS - EIS**
302 HUGHES ST
FOUNTAIN INN, SC
US 29644
Contact: DARRIN WARD
dward@elevatedindustrial.com
T:
F: (864)862-7653